



**CALIFORNIA DEPARTMENT OF TRANSPORTATION
SILANE REACTIVE PENETRATING SEALERS
AUTHORIZED MATERIAL LIST**

The following products have been authorized by the Transportation Laboratory and determined to comply with requirements for the category of “Reactive Penetrating Sealers” within the South Coast Air Quality Management District (SCAQMD) Rule 1113 for Architectural Coatings (Amended February 5, 2016), and the California Air Resources Board 2007 Suggested Control Measures for Architectural Coatings (SCM). These products have also been found not to exceed the maximum volatile organic content (VOC) limit of 350g/L. Silane Reactive Penetrating Sealers shall consist of an alkyl alkoxysilane as a 100 percent neat material or a 40 percent minimum, waterborne dispersion. Alkyl alkoxysilanes shall be an alkyl trimethoxy or triethoxy silane with alkyl groups of i-butyl, i-pentyl, i-octyl, n-octyl, singularly or in combination. Silane Reactive Penetrating Sealers must penetrate into concrete and masonry substrates and chemically react to form covalent bonds with naturally occurring minerals in the substrate. Silane Reactive Penetrating Sealers line the pores of concrete and masonry substrates with a hydrophobic coating, but do not form a surface film. Refer to: *Section 54-7 of the Caltrans 2015 Standard Specifications (SILANE WATERPROOFING TREATMENT)*.

For Caltrans projects in the SCAQMD, Silane Reactive Penetrating Sealers can only be used for reinforced concrete bridge structures within 5 miles of the ocean or above 4000 ft. in elevation.

Manufacturer	Product name	Expiration date
Prosoco, Inc	SL 100 Water Repellent*	12/27/19
Sherwin Williams	Loxon 40% Silane Low VOC Water Repellent, A31T00840	12/27/19
Evonik Industries	Protectosil Chem-Trete BSM 400-BA	12/27/19
Dow Corning	Xiameter OFS 6341*	12/27/19
Advanced Chemical Technologies, Inc.	ATS 100-LV	1/14/21
Sika Corporation	Sikagard – 705L	10/8/21
Sika Corporation	Sikagard – 740W	10/3/21
Euclid Chemical	Barcade Silane 100 C	8/24/23

* Authorized for contractor use only

Materials on the AML will expire 7 years after the date they are added to the AML. Caltrans reserves the right to sample, test materials for compliance, and remove a products from the list at any time. The information contained herein, shall not be used for advertising purposes, nor is it an endorsement by Caltrans.

Instructions of how a product can be placed on the authorized material list can be found in the, **SILANE REACTIVE PENETRATING SEALER, MATERIAL AUTHORIZATION PROCEDURES AND ACCEPTANCE CRITERIA**

If you have questions about this AML contact Barry Marcks at (916) 227-7918 or at Barry.Marcks@dot.ca.gov.